



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date 6/1/2021	EPA Reg. No./File Symbol 3008-xxx	Page 1 of 6
Applicant's/Registrant's Name & Address: Koppers Performance Chemicals Inc. 1016 Everee Inn Road Griffin, GA 30224		Product DCOI MUP (selective cite all to 707-224)

Ingredient: 4,5-Dichloro-2-n-octyl-3(2H)-isothiazolone (DCOIT) (CAS No. 64359-81-5, EPA PC Code 128101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
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GROUP A – Product Chemistry

830.1550	Product Identity and Composition	51560201	Koppers Performance Chemicals	OWN	
830.1600	Description of the Materials Used to Produce the Product	51560201	Koppers Performance Chemicals	OWN	
830.1620	Description of the Production Process	51560201	Koppers Performance Chemicals	OWN	
830.1650	Description of the Formulation Process	N/A	N/A	N/A	This is a MUP.
830.1670	Discussion of Formation of Impurities	51560201	Koppers Performance Chemicals	OWN	
830.1700	Preliminary Analysis	51560202	Koppers Performance Chemicals	OWN	
830.1750	Certified Limits	51560201	Koppers Performance Chemicals	OWN	
830.1800	Enforcement Analytical Method	51560204	Koppers Performance Chemicals	OWN	
830.1900	Submittal of samples	51560201	Koppers Performance Chemicals	OWN	Available upon request

GROUP B – Physical/Chemical Properties

830.6302	Color	51560205	Koppers Performance Chemicals	OWN	
830.6303	Physical State	51560205	Koppers Performance Chemicals	OWN	
830.6304	Odor	51560205	Koppers Performance Chemicals	OWN	
830.6313	Stability	51560205	Koppers Performance Chemicals	OWN	
830.6314	Oxidation/Reduction: Chemical Compatibility	N/A	N/A	N/A	Product is a solid and does not contain oxidation/reduction function groups.
830.6315	Flammability	N/A	N/A	N/A	Product is a solid and does not contain flammable components.
830.6316	Explosibility	N/A	N/A	N/A	Product does not have the chemical bonds or functional groups associated with explosive chemicals.
830.6317	Storage Stability	51560203	Koppers Performance Chemicals	OWN	
830.6319	Miscibility	51560205	Koppers Performance Chemicals	OWN	
830.6320	Corrosion Characteristics	51560203	Koppers Performance Chemicals	OWN	
830.6321	Dielectric Breakdown Voltage	N/A	N/A	N/A	Not required for MUP.
830.7000	pH	51560205	Koppers Performance Chemicals	OWN	
830.7050	UV/Visible absorption	51560205	Koppers Performance Chemicals	OWN	
830.7100	Viscosity	N/A	N/A	N/A	Product is a solid.

Signature

Leigh Ann Richardson

Name and Title:

Leigh Ann Richardson, Sr. Mgr. Regulatory Affairs

Date

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Ingredient: 4,5-Dichloro-2-n-octyl-3(2H)-isothiazolone (DCOIT) (CAS No. 64359-81-5, EPA PC Code 128101)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7200	Melting Point	51560205	Koppers Performance Chemicals	OWN	
830.7220	Boiling Point	51560205	Koppers Performance Chemicals	OWN	
830.7300	Density/Relative Density/Bulk Density	51560205	Koppers Performance Chemicals	OWN	
830.7370	Dissociation Constant	51560205	Koppers Performance Chemicals	OWN	
830.7520	Particle size	N/A	N/A	N/A	Product will not be used in a suspension or dispersion.
830.7570	Partition Coefficient	51560205	Koppers Performance Chemicals	OWN	
830.7840	Solubility (Column elution/shake flask)	51560205	Koppers Performance Chemicals	OWN	
830.7950	Vapor Pressure	51560205	Koppers Performance Chemicals	OWN	
TERRESTRIAL AND AQUATIC NONTARGET ORGANISMS					
850.2200	Avian Subacute Dietary Toxicity: Bobwhite Quail	42214901	Nutrition & Biosciences USA 2, LLC	OLD	
850.2200	Avian Subacute Dietary Toxicity: Mallard Duck	42214902	Nutrition & Biosciences USA 2, LLC	OLD	
850.1075	Freshwater Fish Toxicity: Bluegill Sunfish	49488501	Nutrition & Biosciences USA 2, LLC	PAY	Bridging for long-term fish tox; submitted 10/31/14
850.1075	Freshwater Fish Toxicity: Rainbow Trout	49488501	Nutrition & Biosciences USA 2, LLC	PAY	Bridging for long-term fish tox; submitted 10/31/14
850.1010	Acute Toxicity to Freshwater Invertebrates	41741501	Nutrition & Biosciences USA 2, LLC	OLD	Used in DCOIT RA
850.1075	Acute Toxicity- Estuarine/Marine Organisms: Fish	41741502	Nutrition & Biosciences USA 2, LLC	OLD	Used in DCOIT RA
850.1025	Acute Toxicity- Estuarine/Marine Organisms: Mollusk	41756801	Nutrition & Biosciences USA 2, LLC	OLD	Used in DCOIT RA
850.1035	Acute Toxicity - Estuarine/Marine Organisms: Shrimp	41741503	Nutrition & Biosciences USA 2, LLC	OLD	Used in DCOIT RA
	Acute Toxicity - Estuarine/Marine: Invertebrates	46780740	Nutrition & Biosciences USA 2, LLC	OLD	Used in DCOIT RA
850.1400	Fish Early Life-Stage Toxicity	49488501	Nutrition & Biosciences USA 2, LLC	PAY	Bridging for long-term fish tox; submitted 10/31/14
850.1300	Daphnid Chronic Toxicity Test	49485306	Thor GMBH	PAY	Used in DCOIT RA; submitted 10/14/14
850.4400	Aquatic Vascular Plants (duckweed, <i>Lemna</i> spp.)	45865204	Nutrition & Biosciences USA 2, LLC	OLD	Used in DCOIT RA
850.1500	Fish Life Cycle Toxicity	49488501	Nutrition & Biosciences USA 2, LLC	PAY	See 850.1075 & 850.1400
850.1730	Fish Bioconcentration Factor	N/A	N/A	N/A	N/A

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Ingredient: 4,5-Dichloro-2-n-octyl-3(2H)-isothiazolone (DCOIT) (CAS No. 64359-81-5, EPA PC Code 128101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1710	Oyster Bioconcentration Factor	N/A	N/A	N/A	N/A
850.4400	Algal Toxicity (green algae)	45865203	Nutrition & Biosciences USA 2, LLC	OLD	Used in DCOIT RA; submitted in 2003
850.4500	Algal Toxicity (marine algae)	00126811	Nutrition & Biosciences USA 2, LLC	PL	Used in DCOIT RA; Hollister 1977
850.4550	Cyanobacteria (Anabena flos-aquae)	N/A	N/A	N/A	See 850.4400 or 850.4500

TOXICOLOGY

Acute Testing

870.1100	Acute Oral Toxicity	43471601	Nutrition & Biosciences USA 2, LLC	OLD	Submitted in 1994
870.1200	Acute Dermal Toxicity	N/A	EPA	PL	EPA used public literature to derive dermal POD for DCOIT
870.1300	Acute Inhalation Toxicity	43471602	Nutrition & Biosciences USA 2, LLC	OLD	Submitted in 1994
870.2400	Primary Eye Irritation	N/A	EPA	PL	EPA used public literature to derive dermal POD for DCOIT
870.2500	Primary Dermal Irritation	N/A	EPA	PL	EPA used public literature to derive dermal POD for DCOIT
870.2600	Skin Sensitization	N/A	EPA	PL	EPA used public literature to derive dermal POD for DCOIT

Subchronic Testing

870.3100	Subchronic Rodent Oral Toxicity, 90-Day (dietary)	43471603	Nutrition & Biosciences USA 2, LLC	OLD	Submitted in 1994
870.3200	Repeated Dose Dermal Toxicity	N/A	EPA	PL	EPA used public literature to derive dermal POD for DCOIT RA
870.3250	Subchronic Dermal Toxicity, 90 Days	N/A	EPA	PL	EPA used public literature to derive dermal POD for DCOIT RA
870.3465	Subchronic Inhalation Toxicity, 90 days	43487501	Nutrition & Biosciences USA 2, LLC	OLD	Used in DCOIT Hazard Char.; submitted in 1994
870.6100	90-Day Neurotoxicity	N/A	N/A	N/A	Neurotoxicity is not observed, per DCOIT RA

Chronic Testing

870.4100	Chronic Feeding Toxicity	N/A	N/A	N/A	N/A
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Ingredient: 4,5-Dichloro-2-n-octyl-3(2H)-isothiazolone (DCOIT) (CAS No. 64359-81-5, EPA PC Code 128101)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.4200	Oncogenicity	N/A	N/A	N/A	Not required, per DCOIT RA
Developmental Toxicity and Reproduction					
870.3700	Teratogenicity/ Developmental Toxicity	43471604	Nutrition & Biosciences USA 2, LLC	OLD	Submitted in 1994
870.3800	Reproduction and Fertility Effects	45756501	Nutrition & Biosciences USA 2, LLC	OLD	Used in DCOIT RA; submitted in 2002
870.6300	Developmental Neurotoxicity	N/A	N/A	N/A	Developmental toxicity is not observed, per DCOIT RA
Mutagenicity					
870.5100	Bacterial Reverse Mutation Test (Ames test)	43471605	Nutrition & Biosciences USA 2, LLC	OLD	Submitted in 1994
870.5300	In vitro Mammalian Cell Gene Mutation Test (Chinese hamster)	43471606 43471607	Nutrition & Biosciences USA 2, LLC	OLD	Submitted in 1994
870.5395	In vitro micronucleus assay (CD-1 mouse)	43471608	Nutrition & Biosciences USA 2, LLC	OLD	Submitted in 1994
870.5380	In-vivo Genotoxicity	N/A	N/A	N/A	N/A
Special Testing					
870.7485	Metabolism and Pharmacokinetics (rats)	43471609 44236701	Nutrition & Biosciences USA 2, LLC	OLD	Submitted in 1994 Submitted in 1997
870.7600	Dermal Penetration (rats)	43471610	Nutrition & Biosciences USA 2, LLC	OLD	Submitted in 1994
870.7800	Immunotoxicity			GAP	Dow submitted human patch test results
850.3020	Honey Bee Acute Contact Toxicity	51049501	ACC DCOIT WG	PAY	Submitted 1/17/2020
APPLICATOR EXPOSURE DATA					
875.1100	Applicator Outdoor Dermal Exposure	49434501	AEATF II	PER	Used in Occupational RA. Koppers is a member of the ACC AEATF II.
875.1300	Applicator Outdoor Inhalation Exposure	49434501	AEATF II	PER	Used in Occupational RA. Koppers is a member of the ACC AEATF II.
875.1700	Product Use Information	48933401	ACC AWPTF	PER	Koppers is a member of the ACC AWPTF.
875.2100	Foliar DLR Dissipation	N/A	N/A	N/A	N/A

Signature 	Name and Title: Leigh Ann Richardson, Sr. Mgr. Regulatory Affairs	Date 6/1/2021
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2200	Soil Residue Dissipation	48236002 49648701	Nutrition & Biosciences USA 2, LLC Thor GMBH	PAY PER	Used in DCOIT RA; sub. 9/23/10 Koppers paid for study and it was conducted with Koppers product (KRD- 1403); submitted 6/11/15
Post-Application Exposure Data					
875.2400	Post-Application Dermal (and Incidental Oral) Exposure	42977702	Nutrition & Biosciences USA 2, LLC	OLD	Submitted in 1993
875.2500	Post-Application Inhalation Exposure	42977702	Nutrition & Biosciences USA 2, LLC	OLD	Submitted in 1993
875.2700	Product use information	49434501	ACC AEATF II	PER	Koppers is a member of the AEATF II.
ENVIRONMENTAL FATE					
835.2110 or 835.2120	Hydrolysis	46780744	Nutrition & Biosciences USA 2, LLC	OLD	Used in DCOIT RA; sub. in 2006
835.2240	Photodegradation in water	41845001	Nutrition & Biosciences USA 2, LLC	OLD	Used in DCOIT RA; sub. in 1991
835.2410	Photodegradation on soil	N/A	N/A	N/A	N/A
850.3300	Soil Biodegradation (modified ASRI)	49485313	Thor GMBH	PAY	Used in DCOIT RA
835.4100	Aerobic Soil	44791101	Nutrition & Biosciences USA 2, LLC	OLD	Soil pathway not of concern to Env'l RA; submitted in 1999
835.4200	Anaerobic Soil	N/A	N/A	N/A	Soil pathway not of concern to Env'l RA
835.4300	Aerobic Aquatic Metabolism	41845003, 42341102, 42772802 (sea) 46816307, 46816306 (fresh)	Nutrition & Biosciences USA 2, LLC	OLD	Used in DCOIT RA; sub. in 1991 Submitted in 1992 Submitted in 1993 Submitted in 2006 Submitted in 2006
835.4400	Anaerobic Aquatic Metabolism	41845002, 42341101 (sea) 46816306 (fresh)	Nutrition & Biosciences USA 2, LLC	OLD	Used in DCOIT RA; sub. in 1991 Submitted in 1992 Submitted in 2006
835.1230 or 835.1240	Leaching and Adsorption/Desorption	41845004, 00164668	Nutrition & Biosciences USA 2, LLC	OLD	Used in DCOIT RA; sub. in 1991 Submitted in 1986

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1730	Bioaccumulation in fish	00164507, 00164508, 41845006	Nutrition & Biosciences USA 2, LLC	OLD	Used in DCOIT RA; sub. in 1986 Submitted in 1986 Submitted in 1991
835.3110	Ready biodegradability	46780743, 46780741, 46780742	Nutrition & Biosciences USA 2, LLC	OLD	Used in DCOIT RA; sub in 2006 Submitted in 2006 Submitted in 2006
835.3240	Activated Sludge Unit	49883501	Nutrition & Biosciences USA 2, LLC	PAY	Used in DCOIT RA; sub. 3/31/16
835.1110	Activated Sludge Adsorption Isotherm Test	46780735	Nutrition & Biosciences USA 2, LLC	OLD	Used in DCOIT RA; sub. in 2006
SS-WoodLeach	Special leaching study, treated wood	46780750, 48168201, 48414312, 48424701, 49648702	Nutrition & Biosciences USA 2, LLC Nutrition & Biosciences USA 2, LLC Viance LLC Viance LLC Thor GMBH	OLD PAY PAY PAY PER	Used in DCOIT RA; sub. in 2006 Submitted 7/29/2010 Submitted 3/9/2011 Submitted 3/21/2011 Study conducted by Koppers with Koppers product (KRD-1403); sub. 6/11/2015
SS – Wooden Structure Dislodgeable Residue	Dislodgeable Surface Residue	48414309, 50335202	Viance LLC Viance LLC	PAY PAY	Submitted 3/9/2011 Submitted 7/21/2017

The selective method of support has been used to support the registration of DCOI MUP. Offers of data compensation were sent to those companies listed below.

Nutrition & Biosciences USA 2, LLC 1652 Larkin Center Drive, 100 Larkin Center Midland, MI 48642	Thor GMBH c/o Thor Specialties Inc. 50 Waterview Drive Shelton, CT 06484	Viance, LLC 8001 IBM Drive Charlotte, NC 28262	American Chemistry Council - DCOIT Work Group c/o American Chemistry Council Isothiazolinone Task Force 700 2nd Street, NE Washington, DC 20002
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